# Anti-PA26 antibody

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| **Description** | Rabbit polyclonal to PA26. |

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| **Model** | STJ94927 |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Applications** | ELISA, IHC, WB |
| **Immunogen** | Synthesized peptide derived from human PA26 |
| **Immunogen Region** | 240-320 aa, Internal |
| **Gene ID** | 27244 |
| **Gene Symbol** | SESN1 |
| **Dilution range** | WB 1:500-1:2000IHC 1:100-1:300ELISA 1:20000 |
| **Specificity** | PA26 Polyclonal Antibody detects endogenous levels of PA26 protein. |
| **Tissue Specificity** | Widely expressed. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Note** | For Research Use Only (RUO). |
| **Protein Name** | Sestrin-1 p53-regulated protein PA26 |
| **Molecular Weight** | 57 kDa |
| **Clonality** | Polyclonal |
| **Conjugation** | Unconjugated |

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| **Isotype** | IgG |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Concentration** | 1 mg/ml |
| **Storage Instruction** | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| **Database Links** | HGNC:21595OMIM:606103 |
| **Alternative Names** | Sestrin-1 p53-regulated protein PA26 |
| **Function** | Functions as an intracellular leucine sensor that negatively regulates the TORC1 signaling pathway through the GATOR complex. In absence of leucine, binds the GATOR subcomplex GATOR2 and prevents TORC1 signaling. Binding of leucine to SESN2 disrupts its interaction with GATOR2 thereby activating the TORC1 signaling pathway . This stress-inducible metabolic regulator may also play a role in protection against oxidative and genotoxic stresses . May positively regulate the transcription by NFE2L2 of genes involved in the response to oxidative stress by facilitating the SQSTM1-mediated autophagic degradation of KEAP1 . May have an alkylhydroperoxide reductase activity born by the N-terminal domain of the protein . Was originally reported to contribute to oxidative stress resistance by reducing PRDX1 . However, this could not be confirmed . |
| **Sequence and Domain Family** | Composed of an N-terminal domain that has an alkylhydroperoxide reductase activity and a C-terminal domain that mediates interaction with GATOR2 through which it regulates TORC1 signaling. |
| **Cellular Localization** | Nucleus Cytoplasm |